

## Safety Data Sheet

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Catalog Number: XAN-5040  
 Product Name: OxiSelect™ Trolox Equivalent Antioxidant Capacity (TEAC) Assay Kit (ABTS)  
 Recommended Use: Laboratory Research Reagents

**MANUFACTURER:**

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### SECTION 2. HAZARDS IDENTIFICATION

Trolox Standard (Part No. 50402C): One 200 µL amber tube of a 10 mM solution in ethanol

**Classification:**

Skin irritation, Category 2 (H315)  
 Eye irritation, Category 2A (H319)  
 Flammable liquids, Category 2 (H225)  
 Specific target organ toxicity - single exposure, Category 3, Respiratory system (H335)

<b>Pictogram</b>	
<b>Signal Word</b>	Danger
<p><b>Hazard Statements:</b> Causes skin irritation (H315), Causes serious eye irritation (H319), May cause respiratory irritation (H335), Highly flammable liquid and vapour (H225).</p>	

**Precautionary Statements:** Keep away from heat/sparks/open flames/hot surfaces. No smoking (P210), Keep container tightly closed (P233), Ground/bond container and receiving equipment (P240), Use explosion-proof electrical/ventilating/lighting/equipment (P241), Use only non-sparking tools (P242), Take precautionary measures against static discharge (P243), Avoid breathing dust/fumes/gas/mist/vapor/spray (P261), Wash skin thoroughly after handling (P264), Use only outdoors or in a well-ventilated area (P271), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF ON SKIN: wash with plenty of soap and water (P302 + P352), IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304 + P340), IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), Call a POISON CENTER or doctor if you feel unwell (P312), If skin irritation occurs: get medical advice/attention (P332 + P313), If eye irritation persists: get medical advice/attention (P337 + P313), Take off contaminated clothing and wash before reuse (P362), In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction (P370 + P378), Store in a well-ventilated place and keep cool (P403 + P235). Keep container tightly closed (P403 + P233), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).

ABTS Primer (100X) (Part No. 50403B): One 300 µL amber tube of solution

**Classification:**

Skin irritation, Category 2 (H315)

Eye irritation, Category 2A (H319)


Oxidizing solids Category 3 (H272)

Acute toxicity, Oral Category 4 (H302)

Respiratory sensitisation Category 1 (H334)

Skin sensitisation Category 1 (H317)

Specific target organ toxicity - single exposure Category 3, Respiratory system H335, Acute aquatic toxicity Category 3 H402.

<b>Pictogram</b>	
<b>Signal Word</b>	Danger
<p><b>Hazard Statements:</b> Causes skin irritation (H315), Causes serious eye irritation (H319), May cause respiratory irritation (H335), May intensify fire; oxidizer (H272), Harmful if swallowed (H302), May cause an allergic skin reaction (H317), Causes serious eye irritation (H319), May cause allergy or asthma symptoms or breathing difficulties if inhaled (H334), Harmful to aquatic life (H402).</p>	

**Precautionary Statements:** Keep away from heat (P210), Keep/Store away from clothing/combustible materials (P220), Take any precaution to avoid mixing with combustibles (P221). Avoid breathing dust/fumes/gas/mist/vapor/spray (P261), Wash skin thoroughly after handling (P264), Do not eat, drink or smoke when using this product (P270), Use only outdoors or in a well-ventilated area (P271), Contaminated work clothing should not be allowed out of the workplace (P272), Avoid release to the environment (P273), Wear protective gloves/protective clothing/eye protection/face protection (P280), In case of inadequate ventilation wear respiratory protection (P285). IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth (P301 + P312 + P330), IF ON SKIN: wash with plenty of soap and water (P302 + P352), IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304 + P340), IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), Call a POISON CENTER or doctor if you feel unwell (P312), If skin irritation occurs: get medical advice/attention (P332 + P313), If skin irritation or rash occurs: Get medical advice/attention (P333 + P313), If eye irritation persists: get medical advice/attention (P337 + P313), If experiencing respiratory symptoms: Call a POISON CENTER/doctor (P342 + P311), Take off contaminated clothing and wash before reuse (P362), Store in a well-ventilated place. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction (P370 + P378). Keep container tightly closed (P403 + P233), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Trolox Standard (Part No. 50402C): One 200  $\mu$ L amber tube of a 10 mM solution in ethanol

CHEMICAL NAME	CONCENTRATION	CAS #
( $\pm$ )-6-Hydroxy-2,5,7,8-tetramethylchromane-2-carboxylic acid	10 mM	53188-07-1
Ethanol	100%	64-17-5

ABTS Primer (100X) (Part No. 50403B): One 300  $\mu$ L amber tube of solution

CHEMICAL NAME	CONCENTRATION	CAS #
Proprietary Component A	100-300 mM	

### SECTION 4. FIRST-AID MEASURES

- IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN IF INHALED, REMOVE TO FRESH AIR. IF NOT

BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

- IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.
- IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or CO<sub>2</sub>
- Special protective equipment: Self-contained breathing apparatus

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Evacuate area
- Do not let product enter drains.
- Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
- Absorb with sand or vermiculite, sweep up, place in a bag and hold for waste disposal.
- Avoid raising dust.
- Ventilate area and wash spill site after material pickup is complete.

#### **SECTION 7. SAFETY HANDLING AND STORAGE**

- Should be handled by trained personnel observing good laboratory practices.
- Avoid breathing vapor.
- Avoid skin contact or swallowing.
- May cause allergic reaction in sensitized individuals.
- Store in properly labeled containers at temperature on label
- Recommended storage temperature: 2 - 8 °C in a dry place.

#### **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Engineering measures: Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product.
- Personal protective equipment: Face shield or safety glasses, gloves, protective clothing, suitable respiratory equipment in cases of inadequate ventilation.
- impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Do not let product enter drains.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form:
  - Trolox Standard: liquid
  - ABTS Primer (100X): liquid
- Odor: no data available

- pH: no data available
- Boiling point / range: no data available
- Melting point / range: no data available
- Flash point: no data available
- Evaporation rate: no data available
- Vapor pressure: no data available
- Vapor density: no data available
- Relative density: no data available
- Water solubility: no data available
- Autoignition temperature: no data available
- Decomposition temperature: no data available
- Viscosity: no data available
- Explosive properties: no data available
- Oxidizing properties: no data available

#### **SECTION 10. STABILITY AND REACTIVITY**

- Stability: no data available
- Reactivity: no data available
- Conditions to avoid: no data available
- Incompatible materials:
  - Trolox Standard: Strong oxidizing agents
- Decomposition products: no data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

- Acute toxicity:
  - Trolox: LD50 Oral - rat – 4, 300 mg/kg, Remarks: no data available
  - Ethanol: LD50 Oral 7.060 mg/kg (rat), LC50 Inhalation 20000 ppm 10h (rat)
  - ABTS Primer (100X): LD50 Oral - Rat - 825 mg/kg, LD50 Dermal - Rabbit - > 10,000 mg/kg
- Skin corrosion/irritation: no data available
  - Ethanol: Irritating to skin 24h (rabbit)
- Serious eye damage/irritation: no data available
  - Ethanol: Mild eye irritation 24h Draize test (rabbit)
- Respiratory or skin sensitization: no data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

- Ecotoxicity: no data available
- Mobility: no data available
- Biodegradation: no data available

- Bioaccumulation: no data available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

- For small quantities: Cautiously add to a large stirred excess of water. Adjust the pH to neutral. Flush the aqueous solutions down the drain with plenty of water.

### **SECTION 14. TRANSPORT INFORMATION**

- DOT: Not Hazardous
- IATA: Not Hazardous

### **SECTION 15. REGULATORY INFORMATION**

- Safety, health and environmental regulations/legislation specific for the substance or mixture: no data available
- Chemical safety assessment: no data available

### **SECTION 16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide for experienced personnel. Cell Biolabs, Inc. shall not be held liable for any damage resulting from the handling or from contact with the above product(s).

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